



OCT 12 2006  
U.S. PATENT & TRADEMARK  
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10/560 379  
12 Oct 06  
① DEPO-REF

S&H Form: (2/01)  
Attorney Docket No. 1454.1653

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Juergen GOETZE et al.

Application No.: 10/560,379

Group Art Unit: 2681

Confirmation No.: 1864

Filed: December 13, 2005

Examiner: Unassigned

For: METHOD FOR THE ESTIMATION OF DATA UNITS TRANSMITTED IN A RADIO  
BLOCK VIA A RADIO CHANNEL AND RECEIVING STATION

REQUEST FOR REFUND TO DEPOSIT ACCOUNT

Commissioner for Patents  
PO Box 1450  
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Sir:

Attached hereto is a copy of a Monthly Statement of Deposit Account (dated September 20, 2006) showing a charge(s) of 260.00 related to the above-referenced application. The charge(s) is/are marked with Fee Code 1616, respectively, which relate to the Patent Office Fees for filing PCT Multiple Dependent Claims. However, no such PCT Multiple Dependent Claims is needed since a Preliminary Amendment was filed at the time of filing the application on December 13, 2005 amending all multiple dependent claims. A copy of the Preliminary Amendment and date stamped postcard indicated receipt of said Preliminary Amendment are also enclosed.

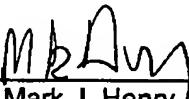
Accordingly, it is respectfully requested that this charge be credited to Deposit Account No. 19-3935 and that the Patent Office acknowledge this credit in writing to the undersigned.

Respectfully submitted,

STAAS & HALSEY LLP

Date: October 12, 2006

By: \_\_\_\_\_

  
Mark J. Henry  
Registration No. 36,162

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Washington, D.C. 20005  
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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING  
UNDER 35 U.S.C. 371 INCLUDING: NATIONAL PHASE APPLICATION TRANSMITTAL; INTERNATIONAL PUBLICATION NO.  
WO 2004/112338, 5 SHEETS OF FORMAL DRAWINGS (FIG. 1-5); PRELIMINARY AMENDMENT, INTERNATIONAL SEARCH  
REPORT, ASSIGNMENT RECORDATION COVER SHEET, INFORMATION DISCLOSURE STATEMENT WITH FORM PTO-1449  
(9 REFERENCES INCLUDED), EXECUTED DECLARATION, ENGLISH LANGUAGE TRANSLATION OF INTERNATIONAL  
APPLICATION, ENGLISH LANGUAGE TRANSLATION OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT AND  
CHECK IN THE AMOUNT OF \$1040.00

APPLICANT(S): Juergen GOETZE et al.

SERIAL NO: Unassigned

10/560379

CONFIRMATION NO.: Unassigned

TITLE: METHOD FOR THE ESTIMATION OF DATA UNITS TRANSMITTED IN A  
RADIO BLOCK VIA A RADIO CHANNEL AND RECEIVING STATION

FILING DATE: December 13, 2005

DOCKET NO: 1454.1653/MJH:nml

DUE DATE: December 13, 2005

IAP4 Rec'd PCT/PTO 13 DEC 2005



Docket No.: 1454.1653

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re the Application of:

Juergen GOETZE et al.

Serial No. Unassigned

Group Art Unit: Unassigned

Confirmation No.

Filed: December 13, 2005

Examiner: Unassigned

For: METHOD FOR THE ESTIMATION OF DATA UNITS TRANSMITTED IN A RADIO  
BLOCK VIA A RADIO CHANNEL AND RECEIVING STATION

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Before examination of the above-identified application, please amend the application as follows:

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Serial No.: Unassigned

**IN THE ABSTRACT:**

Please DELETE the Abstract in its entirety and substitute the attached new Abstract.

A method estimates data units transmitted in a radio block via radio channel. Based on the transmitted data units, a signal sequence is received by a receiving station. The components of the received signal sequence are assigned in the temporal sequence of the reception thereof to at least one first and one second signal block and are processed in blocks. The signal blocks overlap in such a manner that at least one component of the received signal sequence belongs to the two signal blocks and estimation values for the transmitted data units are determined based on the components of both signal blocks.

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**IN THE SPECIFICATION:**

Please REPLACE the specification originally filed with the enclosed Substitute Specification.

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## IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

**Please cancel claims 1-4 and add new claims 5-10 in accordance with the following:**

1-4 (Cancelled)

5. (New) A method for estimating data units transmitted via a radio channel in a radio block, comprising:

transmitting data units to a receiving station;

receiving a signal sequence of components at the receiving station from the data units transmitted;

assigning the components of the received signal sequence to at least a first signal block and a second signal block, the components being assigned based on a time-sequence of receipt at the receiving station, the components being assigned to the signal blocks with overlap in such a way that at least one component of the received signal sequence belongs to both the first and second signal blocks;

processing the components block-by-block; and

estimating values for the data units transmitted to the receiving station by referring to the components of both the first and second signal blocks, the components overlapping the signal blocks in such a way that there is at least one of the data units for which two values are estimated by reference respectively to each of the two signal blocks.

wherein after the two values have been estimated, one of the values is used for the data unit, by reference to one of the two signal blocks .

6. (New) The method in accordance with claim 5, wherein  
a cyclic inverse transfer matrix is assigned to each of the signal blocks, and  
the values are estimated by multiplying the signal blocks by the relevant inverse transfer matrix.

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7. (New) The method in accordance with claim 5, wherein  
a pseudo-inverse transfer matrix with a Töplitz structure and band structure is assigned  
to each of the signal blocks, and

the estimated values are calculated by multiplying the signal blocks by the relevant  
pseudo-inverse transfer matrix.

8. (New) A receiving station comprising:

a receiver to receive a signal sequence of components arising from data units  
transmitted in a radio block;

an assignment unit to assign the components of the received signal sequence to at least  
a first signal block and a second signal block, the components being assigned based on a time-  
sequence of receipt at the receiver, the components being assigned to the signal blocks with  
overlap in such a way that at least one component of the received signal sequence belongs to  
both the first and second signal blocks and

a processing unit to process the components block-by-block and estimate values for the  
data units by referring to the components of both the first and second signal blocks, whereby the  
components overlap the signal blocks in such a way that there is at least one of the data units  
for which two values are estimated by reference respectively to each of the two signal blocks

wherein after the two values have been estimated, one of the values is used for the data  
unit, by reference to one of the two signal blocks.

9. (New) The receiving station in accordance with claim 8, wherein  
a cyclic inverse transfer matrix is assigned to each of the signal blocks, and  
the values are estimated by multiplying the signal blocks by the relevant inverse transfer  
matrix.

10. (New) The receiving station in accordance with claim 8, wherein  
a pseudo-inverse transfer matrix with a Töplitz structure and band structure is assigned  
to each of the signal blocks, and  
the estimated values are calculated by multiplying the signal blocks by the relevant  
pseudo-inverse transfer matrix.

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Serial No.: Unassigned

**REMARKS**

This Preliminary Amendment is submitted to improve the form of the specification as originally-filed. A substitute specification and marked-up copy of the original specification are enclosed. No new matter is added to these documents.

It is respectfully requested that this Preliminary Amendment be entered in the above-referenced application.

If any further fees are required in connection with the filing of this Preliminary Amendment, please charge same to our Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Date: Dec. 13 2003

By: M.J.H.

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